	Application No.	Applicant(s)
	10/789,092	HAWVER, JEFFERY R.
Notice of Allowability	Examiner	Art Unit
-		2052
	Carlos A. Martinez	2853
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT Of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this apport or other appropriate communication SHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>papers filed through 06/22/2006</u> .		
2. The allowed claim(s) is/are <u>1 and 3-13</u> .		·
 Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 	der 35 U.S.C. § 119(a)-(d) or (f).	
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing to 37 CFR 1.121(ngs in the front (not the back) of d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E	tetent Application (PTO 152)
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./Mail Dat	te
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	8), 7. 🗌 Examiner's Amendr	nent/Comment
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	

DETAILED ACTION

Response to Arguments (Withdrawal of Final Rejection)

1. Applicant's arguments, see pages 6-10, filed 06/22/2006, with respect to claims 1-11 have been fully considered, noted on record, and are persuasive. The final rejection of 05/08/2006 has been withdrawn.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance: the prior art does not teach a printing apparatus for exposing an image onto a photosensitive medium, comprising: (a) a printhead comprising a linear array of exposure sources, each said exposure source operable at a variable intensity; (b) a shuttle for moving the printhead over the photosensitive medium in a reciprocating motion between one end of a carriage assembly and the other; (c) an encoder coupled to the shuttle mechanism for providing an index signal at each of a plurality of incremental positions of the shuttle mechanism along the carriage assembly; and (d) exposure control logic for calculating an instantaneous shuttle velocity according to index signal timing and for adjusting the variable intensity of each said exposure source according to said shuttle velocity. Nor does the prior art teach a method of printing by exposing an image onto a photosensitive medium, comprising: (a) providing a printhead comprising a linear array of exposure sources, wherein each exposure source operates at a variable intensity, and wherein said printhead is coupled to a shuttle mechanism; (b) moving said shuttle mechanism and said printhead over said photosensitive medium in a reciprocating motion between a first end of a

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carriage assembly and a second end of said carriage assembly; (c) providing an index signal at each of a plurality of increments of position of the shuttle mechanism along the carriage assembly; (d) calculating a shuttle velocity timing said index signal; and (e) adjusting said variable intensity of each said exposure source according to said instantaneous shuttle velocity. Nor does the prior art teach a method for modulating exposure energy from exposure sources moved in a scan direction across a width of a photosensitive substrate comprising the steps of: (a) measuring a changing instantaneous velocity of said exposure sources by obtaining a series of encoder signals, wherein each signal corresponds to a position along said scan direction; (b) deriving a full scale correction factor for said changing velocity; (c) multiplying said full scale correction factor to said predetermined target exposure intensity; and (d) correcting said exposure errors due to said changing instantaneous velocity, resulting in uniform exposure density across a width of said photosensitive substrate. Nor does the prior art teach a method for modulating exposure energy from exposure sources moved in a scan direction across a width of a photosensitive substrate comprising the steps of: (a) measuring a changing instantaneous velocity of said exposure sources by obtaining a series of encoder signals, wherein each signal corresponds to a position along said scan direction; (b) deriving a fractional correction factor, offset from a constant nominal value for said changing instantaneous velocity; (c) calculating a correction factor by adding said derived fractional correction factor to a constant value representative of said nominal value for said changing instantaneous velocity; (d) multiplying said calculated correction factor to said predetermined target exposure intensity; and (e) correcting said exposure errors due to said changing instantaneous velocity, resulting in uniform exposure density across a width of said photosensitive substrate. Nor does the prior art teach a

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printing apparatus for exposing an image onto a photosensitive medium, comprising: (a) a printhead comprising a linear array of exposure sources, each said exposure source operable at a variable intensity; (b) a shuttle for moving the printhead over the photosensitive medium in a reciprocating motion between one end of a carriage assembly and the other; (c) an encoder coupled to the shuttle mechanism for providing an index signal at each of a plurality of incremental positions of the shuttle mechanism along the carriage assembly; (d) exposure control logic for calculating an instantaneous shuttle velocity according to index signal timing and for adjusting the variable intensity of each said exposure source according to said shuttle velocity; and (e) wherein said photosensitive medium in a stepwise fashion between printing cycles.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos A. Martinez whose telephone number is (571) 272-8349. The examiner can normally be reached on 8:30 am - 5:00 pm (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, STEPHEN D. MEIER can be reached on (571)272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CAM 07/06/2006

HAI PHAM
PRIMARY EXAMINER

Har Litham